

REQUIREMENTS: (When numbers in parentheses, i.e., (1-2) are used, they indicate the winding and the extreme terminals of the windings.)

Electrical ratings:

Inductance (1-4):

Series connected: 16 H minimum.

Parallel connected: 4 H minimum.

Voltage (1-4):

Series connected: 250 volts rms.

Parallel connected: 125 volts rms.

Current (1-4):

Series connected: 0.080 ampere dc.

Parallel connected: 0.160 ampere dc.

DC resistance:

(1-2): 324.5 ohms, maximum.

(3-4): 385 ohms maximum.

Working voltage (peak): 1,000 volts.

Power: 2.08 watts maximum (each winding).

Design and construction:

Dimensions and configuration: See figure 1.

Duty cycle: Continuous.

Case: Metal encased.

Material: Steel.

Terminals: Solder terminal, United Transformer Co. NC-3 or equivalent.

Terminal height: .469 inch, maximum.

Weight: 2 pounds, maximum.

Operating temperature range: -55°C to +105°C.

Terminal strength: Method 211, MIL-STD-202, test condition A, 5 pounds and test condition E, 8 ounce-inches.

Dielectric withstanding voltage (at sea level): 2,400 volts rms.

Electrical characteristics:

Inductance:

Series connected: With 250 volts rms, 120 Hz, and 80 mA dc applied to (1-4), the inductance shall be 16 H, minimum.

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Parallel connected: With 125 volts rms, 120 Hz, and 160 mA dc applied to (1-4), the inductance shall be 4 H, minimum.

DC resistance:

(1-2): 324.5 ohms, maximum.

(3-4): 385 ohms, maximum.

Temperature rise: 40°C with 250 volts rms, 120 Hz, and 80 mA dc applied to (1-4) with (2-3) connected at an ambient temperature of 65°C.

Shock (specified pulse): Method 213, MIL-STD-202, test condition H.

Marking location: See figure 1.

Part or Identifying Number (PIN): M27/209-01.

NOTE: MIL-T-27/209 supersedes MS90009 which is inactive for new design after 28 December 1977. M27/209-01 supersedes MS90009-2.

CONCLUDING MATERIAL

Custodians:

Army - ER
Navy - EC
Air Force - 85

Review activities:

Army - AR, ME, MI, WC
Navy - AS, MC, OS, SH
Air Force - 17, 19, 99
DLA - ES

Preparing activity:
Army - ER

Agent:
DLA - ES

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